U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

OMB No. 1660-0008

Expiration Date: July 31, 2015

		important: K	eau the instru	ctions on pag	ges 1–9.	Expira	tion Bate. July 51, 2015
		SEC.	TION A - PROP	ERTY INFORM	ATION	Emerce Statement Could be the	SURANCE COMPANY USE
A1. Building Owner's Nam	e The Di Bona's					Policy N	umber:
A2. Building Street Address 24 N. 33 rd Ave.	s (including Apt.	, Unit, Suite, and/or	Bldg. No.) or P.O.	Route and Box N	0.	Compar	y NAIG Number:
City BOROUGH OF L	ONGPORT		State NJ	ZIP Code 0	08403		9A/1A
A3. Property Description (I BLOCK 84 LOT 14	Lot and Block Nu	ımbers, Tax Parcel I	Number, Legal De	scription, etc.)	a a a a a a a a a a a a a a a a a a a	007	2.2.2015
A4. Building Use (e.g., Rea A5. Latitude/Longitude: La A6. Attach at least 2 photo A7. Building Diagram Num A8. For a building with a ci a) Square footage of 6 b) Number of perman or enclosure(s) with c) Total net area of flo d) Engineered flood of	t. N 39.3193 Lographs of the bulber 7 rawlspace or encorawlspace or enent flood opening in 1.0 foot above od openings in 1.0 f	ong. W 074.5213 Ho ilding if the Certifica closure(s): nclosure(s) gs in the crawlspace e adjacent grade	orizontal Datum: [te is being used to	NAD 1927 Sobtain flood insur A9. For a back a) Square b) Nuwith c) Tot	rance. ouilding with an atta uare footage of atta	ached gar t flood ope adjacent g t openings	age <u>N/A</u> sq ft enings in the attached garage grade <u>N/A</u>
	SEC	TION B – FLOOD	INSURANCE R	ATE MAP (FIRI	M) INFORMATIC	N	
B1. NFIP Community Name BOROUGH OF LONGPOR		lumber	B2. County Name			B3. State NJ	е
B4. Map/Panel Number 345302/ 0001	B5. Suffix B	B6. FIRM Index I	Effective	IRM Panel Revised Date 15/1983	B8. Flood Zone(s) A8**		Base Flood Elevation(s) (Zone AO, use base flood depth) 10**
B11. Indicate elevation datu B12. Is the building located Designation Date: C1. Building elevations are to the Annual Elevation Certific C2. Elevations – Zones A1– below according to the be	SECTIO Dassed on: cate will be requi	N C – BUILDING ☐ Construction Dr red when constructio (with BFE), VE, V1–	em (CBRS) area o CBRS ELEVATION IN rawings* on of the building i V30, V (with BFE)	OPA FORMATION (S Building Under s complete. AR, AR/A, AR/A	SURVEY REQUI	RED) ⊠ Fii	☐ Yes ☒ No nished Construction O. Complete Items C2.a—h
Benchmark Utilized: priv Indicate elevation datum Datum used for building	<u>rate</u> n used for the ele	evations in items a) t	Vertical Datum hrough h) below.	: <u>NGVD 1929</u> ⊠ NGVD 1929 □	□ NAVD 1988 □ 0	Other/Sour	rce:
Datam used for building	Cicvations mast	be the same as tha	t used for the Dr E	•	Chec	k the mea	surement used.
a) Top of bottom floor (in b) Top of the next higher c) Bottom of the lowest I d) Attached garage (top e) Lowest lelevation of m	r floor norizontal structu of slab) nachinery or equi	ural member (V Zone	es only)	7.8 13.4 N/A. N/A. 11.6	-	⋈ feet⋈ feet⋈ feet⋈ feet⋈ feet	meters meters meters meters meters meters meters
(Describe type of equ f) Lowest adjacent (finis g) Highest adjacent (finis h) Lowest adjacent grad	hed) grade next shed) grade next	to building (LAG) to building (HAG)	s, including structu	6.8 7.5 ral support <u>N/A</u> .	-	⊠ feet ⊠ feet ⊠ feet	☐ meters ☐ meters ☐ meters
	SECTIO	N D - SURVEYO	R, ENGINEER,	OR ARCHITEC	T CERTIFICATI	ON	
This certification is to be sig information. I certify that the I understand that any false S Check here if comment Check here if attachmed Certifier's Name Paul M. Ko Title Licensed Land Survey Address 2161 Shore Road Signature	information on to statement may be as are provided of ents. elling, PLS, CFM or	this Certificate repre- e punishable by fine on back of form. Company Name City Linwood	sents my best effort or imprisonment were latitude and licensed land sur L Paul H. Koelling &	rts to interpret the under 18 U.S. Cool longitude in Sectiveyor? Ye icense Number N Associates, LLC-	e data available. de, Section 1001. tion A provided by es No NJ24GS 04328800 COA 24GA281331 Code 08221	a 	PLACE SEAL HERE
-							

IMPORTANT: In these spaces, cor	by the corresponding information fro	m Section A.	No.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., L	Jnit, Suite, and/or Bldg. No.) or P.O. Route a			Policy Number:
24 N. 33 rd Ave. City BOROUGH OF LONGPORT	State NJ	ZIP Code 0840	03	Company NAIC Number:
SECTION D	- SURVEYOR, ENGINEER, OR ARCI	HITECT CERTII	FICATION (CC	ONTINUED)
	ate for (1) community official, (2) insurance a			
Comments				
B8 & B9.) FEMA Pre-FIRM Zone "AE' *C2a.) crawlspace enclosure	ngineered for 200 square inches of net area 'Base Flood Elevation 9 ft. (NAVD88) col ductwok elev. is 11.6, water heater elev. is 1	nverted = 10.3 π. 3.7, pool equip. el	ev. is 15.1	
Dwelling has a storage room	(41 square feet with 2 Smart vents model #1	1540-510) elev. 7. te 10/8/15	8	
Signature				
SECTION E - BUILDING ELEV	ATION INFORMATION (SURVEY NOT	REQUIRED) F	OR ZONE AO	AND ZONE A (WITHOUT BFE)
end C. For Items E1–E4, use natural grade E1. Provide elevation information for the grade (HAG) and the lowest adjace a) Top of bottom floor (including be b) Top of bottom floor (including be called the provided by the second	nplete Items E1–E5. If the Certificate is intended, if available. Check the measurement us ne following and check the appropriate boxed ent grade (LAG). assement, crawlspace, or enclosure) is assement, crawlspace, or enclosure) is assement flood openings provided in Section fithe building is feet	s to show whether	et meters [et meters [get meters [get meters 2]	above or below the highest adjacent above or below the HAG. above or below the LAG. so of Instructions), the next higher floor
 E3. Attached garage (top of slab) is E4. Top of platform of machinery and/o E5. Zone AO only: If no flood depth no ordinance? Yes No 		loove or ☐ below ☐ feet loor elevated in ac information in Se	meters all all accordance with the ction G.	bove or ☐ below the HAG. ne community's floodplain management
	- PROPERTY OWNER (OR OWNER			
The property owner or owner's authorized or Zone AO must sign here. The statement Property Owner's or Owner's Authorized	ed representative who completes Sections A ents in Sections A, B, and E are correct to the	, B, and E for Zon ne best of my knov	e A (without a Fl vledge.	EMA-issued or community-issued BFE)
	City	·	State	ZIP Code
Address			Teleph	hone
Signature	Date		ТСІСРІ	
Comments				
				Check here if attachmen
	SECTION G - COMMUNITY INFO	ORMATION (OF	PTIONAL)	
The local official who is authorized by law of	or ordinance to administer the community's flo applicable item(s) and sign below. Check the	odniain managem	ent ordinance ca	an complete Sections A, B, C (or E), and 10. In Puerto Rico only, enter meters.
T To Continue in Continue Court	as taken from other documentation that has levation information. (Indicate the source ar	been signed and	sealed by a licer	nsed surveyor, engineer, or architect wh
S2. A community official completed	Section E for a building located in Zone A (without a FEMA-is	sued or commu	nity-issued BFE) or Zone AO.
33. The following information (Items	s G4–G10) is provided for community floodp	olain management	purposes.	
	G5. Date Permit Issued			mpliance/Occupancy Issued
G4. Permit Number	GS. Date Fermit Issued			
		al Improvement		
G7. This permit has been issued for:	☐ New Construction ☐ Substantia	feet	☐ meters	Datum
G7. This permit has been issued for: G8. Elevation of as-built lowest floor (inc G9. BFE or (in Zone AO) depth of floodi	☐ New Construction ☐ Substantia Cluding basement) of the building:	feet feet	meters	Datum
G7. This permit has been issued for: G8. Elevation of as-built lowest floor (inc G9. BFE or (in Zone AO) depth of floodi	☐ New Construction ☐ Substantia Cluding basement) of the building:	feet		
G7. This permit has been issued for: G8. Elevation of as-built lowest floor (inc G9. BFE or (in Zone AO) depth of floodi	☐ New Construction ☐ Substantia Cluding basement) of the building:	feet feet	meters	Datum
G7. This permit has been issued for: G8. Elevation of as-built lowest floor (inc G9. BFE or (in Zone AO) depth of floodi G10. Community's design flood elevation	☐ New Construction ☐ Substantia Cluding basement) of the building:	feet	meters	Datum
G7. This permit has been issued for: G8. Elevation of as-built lowest floor (inc G9. BFE or (in Zone AO) depth of floodi G10. Community's design flood elevation Local Official's Name	☐ New Construction ☐ Substantia Cluding basement) of the building:	feet feet feet Title	meters	Datum
G7. This permit has been issued for: G8. Elevation of as-built lowest floor (inc.) G9. BFE or (in Zone AO) depth of flooding G10. Community's design flood elevation Local Official's Name Community Name	☐ New Construction ☐ Substantia Cluding basement) of the building:	feet feet	meters	Datum

Building Photographs

÷ +	Continuation F	Page	For Insurance Company Use:
Building Street Address (inclu 24 N. 33 rd Ave.	ding Apt., Unit, Suite, and/or Bldg.) No. o	r P.O. Route and Box No.	Policy Number
City	State	ZIP Code	Company NAIC Number
Longport	NJ	0808403	tir cobii

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."





Front View - Date of Photograph: (See Photo Stamp)

Rear View – Date of Photograph: (See Photo Stamp)





Right Side View - Date of Photograph: (See Photo Stamp)

Vent View – Date of Photograph: (See Photo Stamp)

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ICC-ES Evaluation Report

ESR-2074

Reissued February 1, 2009

This report is subject to re-examination in two years.

www.icc-ss.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 10—SPECIALTIES Section: 10230—Vents

REPORT HOLDER:

SMART VENT®, INC.
450 ANDBRO DRIVE, SUITE 2B
PITMAN, NEW JERSEY 05071
(556) 307-1465
www.smartvent.com
eval@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:
FLOODVENT™ MODEL #1540-520; FLOODVENT™
STACKING MODEL #1540-521; SMARTVENT™ MODEL
#1540-510; SMARTVENT™ STACKING MODEL #1540-511;
WOOD WALL FLOOD MODEL #1540-570; WOOD WALL
FLOOD OVERHEAD DOOR MODEL #1540-574;
FLOODVENT™ OVERHEAD DOOR MODEL #1540-524;
SMARTVENT™ OVERHEAD DOOR MODEL #1540-514

1.0 . EVALUATION SCOPE

Compliance with the following codes:

- 2006 International Building Code® (IBC)
- 2006 International Residential Code® (IRC)

Properties evaluated:

- Physical operation
- s Water flow

2.0 USES

The Smart Vent units are automatic foundation flood vents (AFFVs) employed to equalize hydrostatic pressure on nonfire-resistance-rated foundation walls, rolling-type overhead doors and building walls subject to rising or falling flood waters. Certain models also allow natural ventilation in accordance with Section 1203 of the IBC or Section 408.1 of the IRC.

3.0 DESCRIPTION

3.1 General:

When subjected to pressure from rising water, the Smart Vent® AFFVs disengage, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The AFFV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to

unlatch, allowing the plate to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel, and each opening provides 76 square inches (49 032 mm²) of net free area for flood mitigation in the open position. The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units each contain two vertically arranged openings per unit, providing 152 square inches (98 064 mm²) of net free area for flood mitigation in the open position.

3.2 Engineered Opening:

The AFFVs comply with the design principle noted in Section 2.6.2.2 of ASCE/SEI 24 for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent AFFVs must be installed in accordance with Section 4.0.

3.3 Model Sizes:

The FloodVENT™ Model #1540-520, SmartVENT™ Model #1540-510, FloodVENT™ Overhead Door Model #1540-524, and SmartVENT™ Overhead Door Model #1540-514 units measure 15³/₄ inches wide by 7³/₄ inches high (400 by 196.9 mm). The Wood Wall Flood Model #1540-570 and Wood Wall Flood Overhead Door Model #1540-574 units measure 14 inches wide by 8³/₄ inches high (355.6 by 222.25 mm). The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units measure 16 inches wide by 16 inches high (406.4 by 406.4 mm).

3.4 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with ¹/₄-inch-by-¹/₄-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT™ Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other AFFVs recognized in this report do not offer natural ventilation.

4.0 INSTALLATION

SmartVENT and FloodVENT™ are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. The mounting straps allow mounting in wood, masonry and concrete walls up to 12 inches (305 mm) thick. In order to



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